

A federal laboratory needs a policy-driven mission accomplished by doing big science

Mission

- **Ensure safety and reliability of nuclear stockpile**
- **Work against proliferation of nuclear weapons**



Policy

- **No nuclear testing**

Roger Fisher
Director, DoD Programs



Lawrence Livermore
National Laboratory

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To us, big science refers to projects of large scale and impact



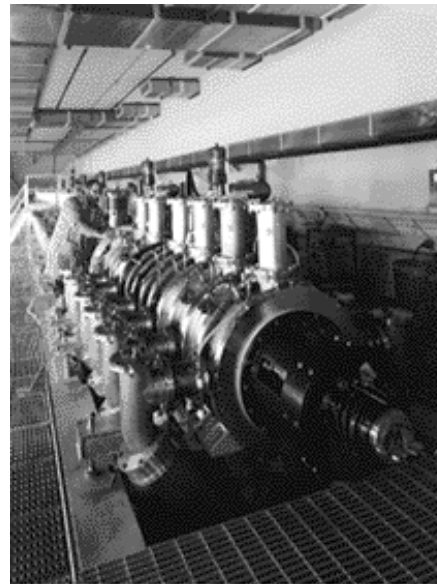
Advanced Strategic Computing Initiative (ASCI): massively parallel teraflop supercomputing



Nova inertial fusion laser



Flash x-ray (FXR) radiography machine



Big science requires the construction of large facilities



National Ignition Facility (NIF)



**Defines state-of-the-art
in optics industry**

★ **A large fraction of
its construction
budget goes
to industry**

★ **Industrial partners
critical to LLNL
mission**

The Lab is characterized by highly committed multidisciplinary teams



Our multidisciplinary teams support the big science we've been doing since LLNL began in 1952

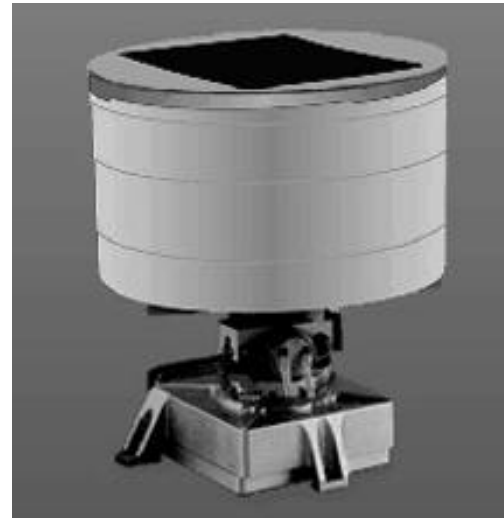
Our mission determines the nature and scope of our science and technology



**Weapons: warhead for
Polaris missile**



**Remote sensing: star
tracker camera used on
Clementine spacecraft
that mapped the
moon's surface**



Big science forms the foundation for stable, long-term industrial participation



**Almost 50 years of close
partnering with industry**



Conclusion: A federal lab needs a policy-driven mission accomplished by doing big science



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